



NUCLEAR DIVISION NEWS

A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol 4. — No. 2

Thursday, January 18, 1973

QUESTION BOX

If you have questions on company policies, benefits, etc. or any other problems with which we might help, just let us know. Drop your inquiry to the Editor, Nuclear Division News. (Or telephone it in to your plant news representative . . . see page two). You may or may not sign your name. It will not be used in the paper if you so desire.

Questions are referred to the proper authorities for accurate answers. Each query is given serious consideration for publication.

Answers may be given to employees personally if they so desire.

QUESTION: Why have medical examinations for an interviewee? Why aren't interviewees informed of this before they come into the plant? Such examinations take doctors' time from employees for people who may never be hired. It may also give the man too optimistic an outlook about securing a job.

ANSWER: Each year approximately 7,000 applicants visit our Central Employment Office and the employment offices at our four installations. Of these, 1,300 were given preemployment physicals last year. Of those given physicals, 800 were hired.

Preemployment physical examinations normally are given only to applicants who have promising employment potential.

Generally, a preemployment physical is given to such applicants during an early visit in order to save the time and expense an additional trip would involve.

Our employment interviewers try not to give an applicant an overly optimistic outlook about a job since a satisfactory physical examination is only one of the elements in ultimate job placement.

QUESTION: It was several years ago that we were permitted to decide on an individual basis whether or not we wished to obtain additional group life insurance. We were informed of the amount of insurance which would be available and what it would cost. I'm sure the majority of the employees appreciated the opportunity as being an improvement in one of the better benefit plans.

The Company is now paying for the hospitalization but salaried employees have no choice but to accept what is offered. Why not give us a choice, at a price, to determine the coverage or extent of the coverage we want.

The major medical plan we now have is expensive and if it is to be used the records necessary to prove a claim are outrageous. The many forms and statements required must be duplicated for both plans and medical people are too busy to provide written reports within a reasonable time.

As a matter of fact, one of the prime reasons for the continuing increase in cost of medical care is the necessity of maintaining an intricate bookkeeping system in every doctor's office.

Why not drop the major medical plan and extend and expand the hospitalization plan to cover the cost of medical treatment with the choice and additional cost up to the employee?

ANSWER: It would be a mistake to discontinue the major medical expense plan. While most employees could pay basic hospital and surgical charges, if necessary, one major illness could put an employee so far in debt it would take him years to recover were it not for the protection offered by the major medical expense plan.

Actually, the major medical expense plan is much less expensive than the basic hospitalization plan. The cost for family coverage under the major or special medical expense plans ranges from approximately \$8 to \$10 per month, whereas the monthly cost for basic hospitalization for family coverage ranges from approximately \$30 to \$35 per month. The difference in rates paid within UCN is primarily a reflection of the claims' experience of the groups involved.

The Company pays for all the basic hospitalization plan and for one-half of the major or special medical expense plan. The costs of these plans have increased recently almost every year because of escalating charges from hospitals and physicians for their services. If this rapid escalation continues, it is entirely conceivable that at some point in time, the cost of the prevailing level of benefits will reach the maximum that the Company is willing to pay. If this happens, one of the alternatives will be, as you suggest, to offer additional benefits on an optional basis, giving employees an opportunity to provide additional coverage at their own expense.

(Continued on Page 3)

Joseph J. Vogt will head ORGDP industrial relations

The appointment of Joseph J. Vogt as Superintendent of the Industrial Relations Division at the Oak Ridge Gaseous Diffusion Plant has been announced by Robert A. Winkel, Plant Superintendent.

Vogt succeeds Robert J. Betts who left recently to accept a position with the Tennessee Valley Authority.

Vogt has been with Union Carbide for more than 15 years. He served in various industrial relations capacities at facilities in West Virginia, Alabama and New York prior to being named Manager of Employee Relations for Union Carbide's Materials Systems Division in 1970.

A native of Kearny, N.J., Vogt was graduated from Tusculum College, Greeneville, Tenn., with a bachelor's degree in business administration in 1953. He served with the U.S. Navy for more than three years before joining Union Carbide.

He has been residing in Wayne, N.J., for the last six years where he has served as chairman of the Wayne Citizen's Drainage Committee, treasurer and merit badge examiner for the Boy Scouts of America, and a member of the Board of Governors of the Packanack Lake Country Club.

He is married to the former Kathy (Kathleen) Kelly of Louisville, Ky., and they have three children: Karen, 15; John, 13; and Joseph Kelly, 11. The family will reside at 1058 West Outer Drive, Oak Ridge, in the near future.



Joseph J. Vogt

Toll enrichment for twelve months past \$75 million

More than \$75 million in enriching services was provided by the Oak Ridge Gaseous Diffusion Plant during 1972.

Last year, the plant furnished more than 1.3 million pounds of enriched uranium valued at \$75,550,816.

Toll enrichment was instituted on January 1, 1969. Under this program, privately-licensed owners bring their uranium to the gaseous diffusion plant for enriching on a toll basis. Customers are charged for the services required to separate from natural uranium the desired percentage of the uranium-235 isotope, usually between 2 and 3 percent.

During 1972, reactor facilities in the following states received uranium enriched at the Oak Ridge Gaseous Diffusion Plant: Alabama, Arkansas, California, Connecticut, Florida, Georgia, Illinois, Michigan, New Jersey, New York, and South Carolina. Foreign nations served by the program include Italy, Japan, Sweden, Switzerland, and West Germany.

The Atomic Energy Commission's gaseous diffusion plants at Paducah, Ky., and Portsmouth, Ohio, are also involved in the uranium enrichment program.

Next Issue

The next issue will be dated Feb. 1. The deadline is Jan. 23.

Bloodmobile visit set February 7, 8

The Oak Ridge Chapter of the American Red Cross announces its Bloodmobile visit for February 7 and 8.

Hours on the 7th will be from 4 until 10 p.m. while the 8th's hours are set for 11 a.m. to 5 p.m. The quota for the February visit has been scheduled at 432 pints.

The place: The Armory on the Turnpike.

Donors wishing to make appointments should call the Red Cross, Oak Ridge telephone 483-5641.

World Press fellows set plans for January tour

World Press Institute Fellows from 12 countries will visit atomic energy facilities in Oak Ridge January 28-29 for briefings and a tour of facilities.

The World Press Institute, headquartered at Macalester College, St. Paul, Minn., is a private nonprofit organization sponsored by American corporations and their foundations. Each year the Institute selects outstanding young journalists from throughout the world as World Press Institute Fellows. For nine months these newsmen participate in a program that includes intensive study, internships and travel.

Officials will brief

This year's participants are from Brazil, Ecuador, Ghana, India, Israel, Italy, Japan, Korea, Panama, Sweden, United Kingdom, and Russia.

Bass son graduates from dental college

Alexander Paul Bass III received his D.D.S. degree at The University of Tennessee Medical Unit in Memphis last month.

Bass did his undergraduate work at UT in Knoxville. At the UT College of Dentistry, he was president of his class, president of Psi Omega dental fraternity, vice president of the American Student Dental Association, a member of the Student Affairs Committee, and was a recipient of Psi Omega's "Fraternal Achievement Award" for the outstanding senior.

He was a delegate to the American Student Dental Association convention in Chicago, and is a member of A.S.D.A.'s committee on insurance.

Dr. Bass's father, A.P. Bass Jr. is in Y-12's Production Engineering; and his grandfather, A.P. Bass Sr. is in ORNL's Plant and Equipment Division.



Bass

As part of their visit to Oak Ridge, the Fellows will be briefed by Roger F. Hibbs, President of the Nuclear Division; Paul R. Vanstrum, Vice President-Production; Alvin M. Weinberg, Director, Oak Ridge National Laboratory; Herman Postma, Director of the Thermonuclear Division, ORNL; and Stanley I. Auerbach, Director of the Environmental Sciences Division, ORNL.

'Unfettered' view

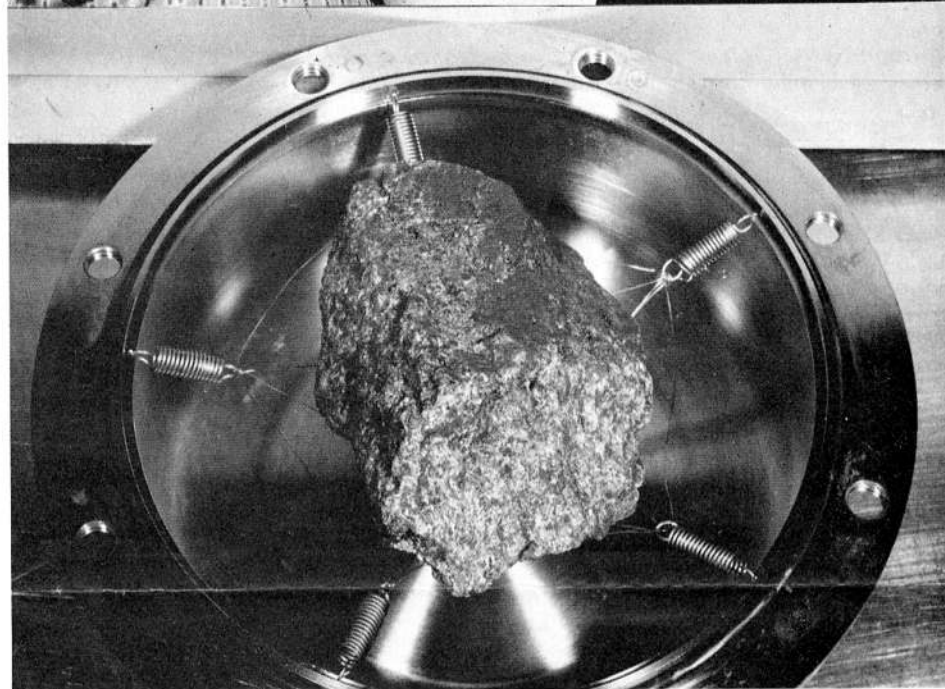
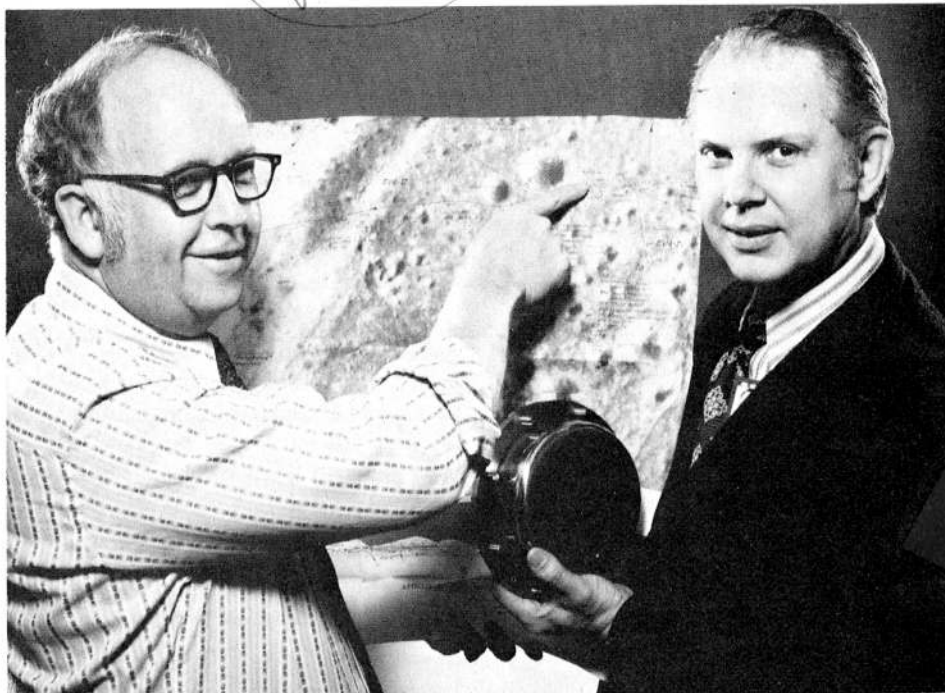
The Fellows will be accompanied by Mark H. Stedman, Director of the World Press Institute. Stedman explained that the goal of the Institute is to insure that international opinion about the Union States is shaped by journalists writing from a comprehensive background of experience in America.

"The Institute seeks to achieve this by providing young foreign journalists with an open and unfettered view of American society at every level so that they may return home with new-found ability to report and interpret U.S. affairs more accurately and with deeper understanding," he explained.

Fellows listed

This year's World Press Institute Fellows include: Ney Curvo, assistant editor, Jornal do Brasil, Rio de Janeiro; Jose Ulloa, La-Prensa, Ecuador; Joseph Nunoo, chief sub-editor, Ghana News Agency; Gautam Vohra, assistant editor, The Times of India; Razi Guterman, economics reporter, Maariv Israel; Nicola Grocetti, associate editor, Reader's Digest, Milan; Naoaki Usui, free lance journalist, Japan.

Also, Kyung-Moon Lee, feature writer for Dong A Ilbo, Seoul; Luz Noli, city editor, Televisora Nacional, Panama City; Ove Johansson, roving reporter, Swedish Broadcasting Corporation; Peter Tickner, sub-editor, Sunday Times, London; Sharon Churcher, general features writer, Western Mail, Cardiff, Wales; and Lev Yelissev, reporter, Radio Moscow.



MOON ROCK HERE — An igneous rock, described as having lots of little gas bubble cavities arrived at Oak Ridge National Laboratory during the Christmas holidays. Hand-carried from Houston, the moon rock was brought to Oak Ridge by James S. Eldridge, seen at left in top photo, with G. Davis O'Kelley, head of ORNL's Lunar Research Team. The rock was picked up by Apollo 17 astronauts on their first "walk." Both O'Kelley and Eldridge, along with K.D. Northcutt, worked during the holidays, analyzing the piece of moon, which has already been returned to NASA.

Moon rock and soil studied by ORNL lunar researchers

ORNL's three-man lunar research team has finished preliminary examination of two moon rocks from Apollo 17 and has begun study of two soil samples. The first moon rock and a sodium iodide crystal on board the command module were hand-carried from Houston during the holidays. The crystal is shaped like a cylinder and is three inches long and three inches in diameter. It is being used in an experiment to measure the effects of cosmic rays in deep space.

The first moon rock was picked up during the astronauts' first "walk." An igneous rock, it is described as having lots of small gas bubble cavities. It is believed to have one of the "youngest" exposure ages of all the moon rocks that have been studied at ORNL.

G.Davis O'Kelley, head of the lunar research team, explained that rocks have two "ages." Their age of crystallization refers to when the rocks were actually formed. Their exposure age refers to how long the rocks have been exposed on the surface of the moon.

Scientists are very interested in finding rocks with young exposure ages because these have not been eroded as much as rocks which have been lying on the moon's surface for longer times. The second rock was really a piece of a boulder that had broken open. The two rocks have already been returned to NASA.

The soil samples were received January 5. One of the samples was taken from the area where the second moon rock was found. The results of tests on it will be compared with those of the second moon rock.

ORNL's lunar research team, which includes James S. Eldridge and K.J. Northcutt, is one of four teams doing radiation counting tests on materials found on the moon. There are two teams at Houston and one at Battelle-NW Laboratory. O'Kelley is hopeful that ORNL will receive samples more quickly now. As many as two or three samples per week are expected.

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UNION CARBIDE CORPORATION
NUCLEAR DIVISION

James A. Young, Editor, Y-12

Ext. 3-7100
Ruby Miller, ORNL

Ext. 3-6421
Keith Bryant, Paducah

Bell 369
Doug Carter, ORGDP

Ext. 3-3017

—Member—

APPALACHIAN INDUSTRIAL
EDITORS' ASSOCIATION

INTERNATIONAL ASSOCIATION OF
BUSINESS COMMUNICATORS

Office
Post Office Box Y
Oak Ridge, Tenn. 37830

Company Service

Y-12 PLANT
25 YEARS

Glynn A. White

20 YEARS

Thayer A. Hickman, Billy R. Pearson, Louise G. Scogin, Charles R. Wardell, Aubrey G. Bryant, Robert D. Baker, Harry B. Thackston, Samuel J. Webster and Hubert L. Felix.

ORNL
25 YEARS

Gerald W. Keilholtz, William G. Cobb, James T. Wiggins, Billy J. Strader, Arthur P. Marquardt, Henry W. Morgan, Frank C. Zapp, and Elliot Volkin.

20 YEARS

Charles Q. Balch, Harry E. Trotter, Luke R. Sullivan, Walter P. Kinser Jr., and William K. Russell.

Herbert G. Duggan was listed as having 20 years of company service in the Jan. 4 issue, which was incorrect. The person listed should have been Hazel C. Duggan.

ORGD's Peterson named to new post in power, utilities

73 52



Carl H. Peterson

Carl H. Peterson has been named Superintendent of the Power and Utilities Department at the Oak Ridge Gaseous Diffusion Plant, according to an announcement from A.J. Legeay, Operations Division Superintendent.

Peterson, a native of Bushnell, Fla., joined Union Carbide June 30, 1969, after receiving a B.S. degree in electrical engineering from the University of Florida. Prior to completing college, he worked for the Florida Power Company and served in the U.S. Air Force from 1956 until 1960.

Mrs. Peterson is the former Hella Kuhlmann, and they live at 707 West Vanderbilt, Oak Ridge. They have a four-year old daughter, Monika.

Peterson enjoys bowling and golfing and is president of the Oak Ridge Toastmaster's Club.

Biology's Yamaoka awarded fellowship

Larry H. Yamaoka of the University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences has been awarded a one-year postdoctoral fellowship by the Muscular Dystrophy Associations of America, Inc. Yamaoka works in the Biology Division of Oak Ridge National Laboratory.



His project is designed to establish various factors controlling degeneration and reformation of muscle, a basic problem in understanding the nature of muscle diseases.

Yamaoka is a graduate of the University of Hawaii, which is his home state, and completed his graduate studies at the University of Oregon in 1972.

MDAA supports a world-wide research effort on muscle disease and has allocated more than \$300,000 to research projects in Tennessee since its founding in 1950.

QUESTION BOX

(Continued from page 1)

QUESTION: I retired from ORGD April, 1972, at age 62 with 27 years' service. Why was the room and board pay in my hospital insurance cut from \$40 per day to \$20? Why does Carbide go along with Blue Cross in doing this when a retiree needs it most when retired? I pay approximately \$96 per quarter for hospital and major medical insurance.

ANSWER: The conversion policy to which you refer is the regular Blue Cross pay-direct policy which is made available to employees whose group coverage is canceled when they terminate from the Company. Blue Cross designs the benefits and determines the premium. It is a state-wide plan which Carbide does not control in any way.

Since you were permitted to continue participation in Carbide's group major medical expense plan, a large part of the charges in excess of the Blue Cross pay-direct basic plan coverage will be reimbursable under our major medical plan.

QUESTION: (from the same retiree) Did the improvements in hospitalization that became effective August 1 help those who were retired — \$4 to \$5 for doctor's visits after the 5th day? Also, was the change in room and board of any help to a retiree or will they still cut his room and board from regular charge made by hospital to \$20?

ANSWER: Sorry, but the changes made in the Company's hospitalization program on August 1, 1972, did not apply to any salaried employee who terminated prior to that date. The plan, however, was changed on August 1, 1972, so that an employee who retires early after that date will have the option of converting to the regular Blue Cross state-wide plan or of continuing as a member of the Company's group hospitalization plan until he reaches 65 years of age. In either case, the employee pays the full cost of the coverage elected.

ADDRESSES ASME-IEEE

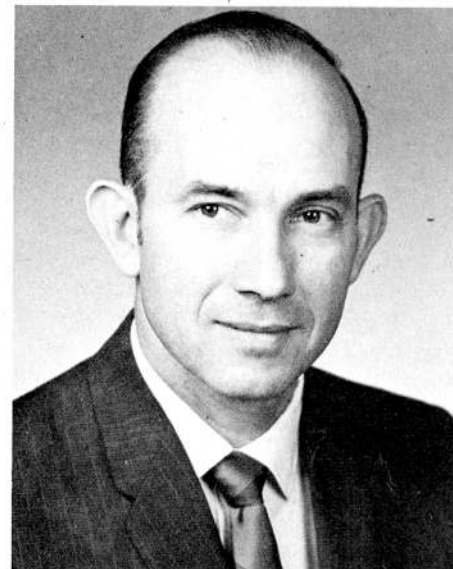
Paul R. Vanstrum, Vice President of the Nuclear Division-Production, will speak at a joint meeting of the American Society of Mechanical Engineers and the Institute of Electrical and Electronic Engineers, January 23.

The meeting is set in South Charleston, W. Va.

Vanstrum's speech is entitled, "Gaseous Diffusion Plants Now Being Planned."

SME's gold medal awarded Y-12 development specialist

130440



Roy L. Williams

Roy L. Williams, a Union Carbide development specialist, has been named recipient of the Society of Manufacturing Engineers' Gold Medal in recognition of his contributions to the Society and to the field of engineering.

Williams, a member of Y-12's development staff and a nationally recognized expert in metalcutting research, will receive the SME Gold Medal at the Society's International Conference in Detroit, Mich., in May.

A native of New Orleans, La., Williams holds a B.S. degree in industrial engineering from the University of Houston and an M.S. degree in mechanical engineering from the University of Illinois. He joined the Union Carbide organization in 1967.

He is the author of a number of technical documents and has presented papers at several national meetings. Williams has held several offices in the SME and presently is chairman of the Knoxville-Oak Ridge Chapter. He is also a member of Alpha Pi Mu, Tau Beta Pi and Sigma Xi.

He and his wife, Louise, live at 122 Nebraska Avenue, Oak Ridge. They have three children: Marieta, John and David.

ORNL ANNUAL REPORT

ORNL employees received their copy of the 1971-72 Annual Report during the holidays. The technical developments of the year were enhanced by photographs of animals and flowers found on the ORNL reservation.

SICKLE CELL ANEMIA TESTS SUNDAY

The Atomic City Sportsmen's Association will provide free tests for sickle cell anemia Sunday, January 21. The tests will be given at the Scarboro Civic Center, beginning at 12:15 p.m.

All four credit unions plan big annual meetings this month

With combined assets in excess of \$30,000,000 all four Nuclear Division credit unions are preparing for their annual meetings.

Oak Ridge Gaseous Diffusion Plant employees initiate the season next Tuesday, January 23. Their credit union meeting is set to elect three board members and one member to the credit committee. The K-25 credit union meeting is scheduled for 7:30 p.m. at the Shep Lauter Room of the Oak Ridge Civic Center. Hams and radios are listed as door prizes for the annual event.

Y-12 has set its credit union meeting for Thursday, January 25, at Robertsville Junior High School, the meeting to start promptly at 7 p.m.

Y-12 has listed as door prizes a radar micro-wave range as first prize, two tape recorders and 22 gift certificates to the Company Store... two for \$25, 10 for \$10 and 10 for \$5.

Two members to the board are to be elected for Y-12, as well as one member of the credit committee. Nominations will not be taken from the

floor in accordance with new procedures adopted by board members recently.

Paducah credit union members will hold their annual meeting at 1:30 p.m. Sunday, January 28, at the Jaycee Civic Center, in Paducah. A cash door prize of \$100 is offered, with 20 - \$20 prizes to follow. Three board members are to be named and one member of the credit committee. Nominations will be taken from the floor, also.

The Paducah credit union will announce another 5.5 percent annual dividend compounded semi-annually, with a 25 percent refund on interest paid by members for 1972.

The ORNL credit union, with assets near \$15 million, prepares for its silver anniversary annual meeting. Four board members must be named at their meeting Monday, January 29. The meeting is set for 7 p.m. at the Oak Ridge Civic Center.

ORNL announces for their door prizes two electric drills, four "instant" cameras, four crock pots, two clock radios, two ice cream freezers, two portable TV's, three tape recorders, two blenders, and 15 hams. (Members must be present to be eligible to win, except shift workers unable to attend the meeting, whose names will be included in the drawings. Shift supervisors will provide credit union officials all employees at work between 6 and 10 p.m. the night of the meeting).

The annual meeting is the member's opportunity to take part in his credit union's business. It is to his selfish interest that he attends, since it's his money involved.

NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through January 11:

Paducah	94 Days	592,000 Man-Hours
ORGDP	91 Days	1,295,000 Man-Hours
ORNL	31 Days	462,263 Man-Hours
Y-12	2 Days	98,000 Man-Hours

Safety is everyone's concern!

Engineer exchange program puts Ed Bryant at Livermore

How would you like to trade jobs with someone 2,515 miles from Oak Ridge for one year?

Ed Bryant, Y-12's Mechanical Engineering Department, is on an assignment in the Device Engineering Division at the Lawrence Livermore Laboratory, Livermore, Calif.

Walt Scherer, Dow Chemical's Rocky Flats plant at Golden, Colo., is at LLL also on the exchange program, while Fred Rienecker, of LLL works at Rocky Flats; and James R. Paige, also of LLL, is on assignment in Y-12's Engineering Design and Production Department.

It's all part of an exchange program with AEC contractors that started back in the fall when these four engineers traded jobs for a year. Designed to benefit both the organizations and the individuals involved, the exchanges were affected during a period of slow growth and low turnover to provide technology transfer and career enhancement. It will afford personnel a chance to observe programs and problems from the point of view of the producer. While at the same time someone from production will be able to observe the development of production from research and development standpoints.

These new challenges should increase technical competence and help avoid a stagnant technological environment with a smoother exchange of engineering techniques and methodology.

Ed Bryant feels the program will be of great help to him. "I have visited the Lab before, but I feel like I'm really getting to know the people here and the work done much better."

Walt Scherer, of Dow, agreed.

"Problems seem easier to solve when people know each other, and that's what exchange programs like this are all about," Bryant told LLL's Newsline recently.

Paige, a native of Williamsburg, Pa., holds a B.S.M.E. from Lehigh University and an M.S.M.E. from Cornell. He went with LLL shortly after his graduation in 1962, and is presently a senior engineer in the containment group of the Dynamic Systems Section.

"The terrain of East Tennessee is very much like my native Pennsylvania," Paige stated, "in fact, I'm surprised at the similarity. Pat (his wife) and I are enjoying our stay here very much. Workwise, I'm over the orientation stage, and am getting involved. It is proving very interesting."

The visiting engineer is living on Morgan Road in the west end of Oak Ridge.

Patents granted

To Nancy H. Stephens, Forrest N. Case and Elick H. Acree, ORNL, for "Method for Mass Tagging Sand with a Radioactive Isotope."

To Allen M. Veach and William A. Bell Jr., ORNL, for "Separation of Mercury Isotopes."

To Dale Bewley, Paducah, for "Improved Aluminum Alloy."

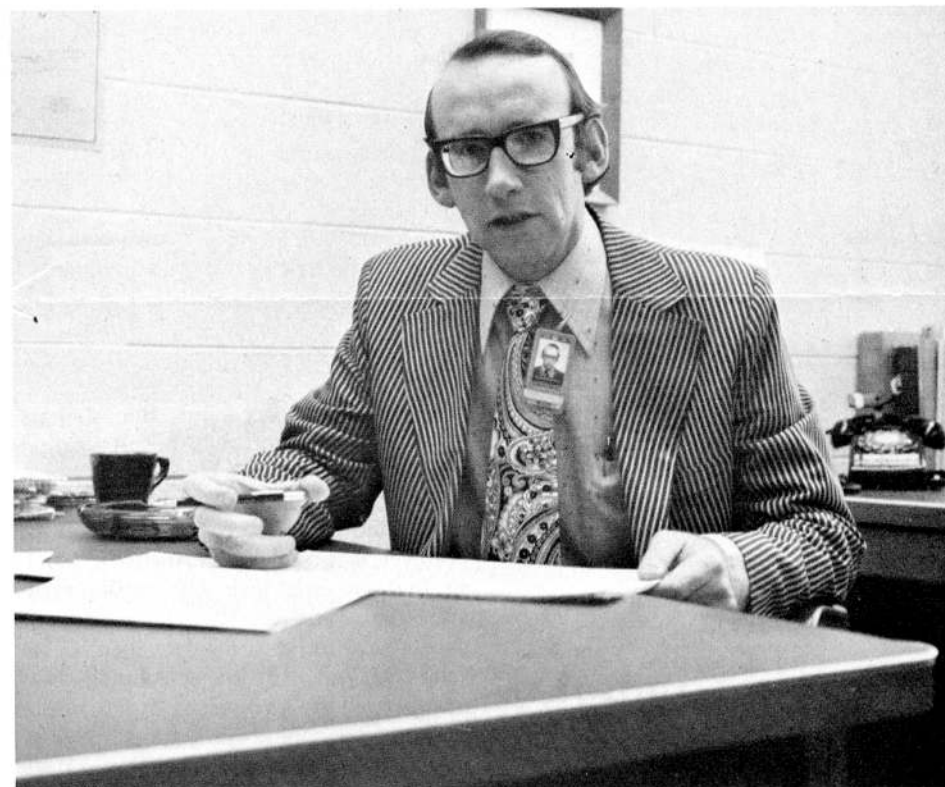
To James N. Luton Jr., ORNL, for "Temperature-Compensated Trimming Windings for Water-Cooled Magnet Coils."

FORMER Y-12ER DIES

Guy C. Garrett, an outside machinist in the Maintenance Division in Y-12, died January 8 at his Lancing, Tenn., home. He retired from Y-12 in 1969. Funeral services were held in Lancing at Elizabeth Baptist Church, with burial in the church cemetery.



VISITING ENGINEERS — On an engineer's exchange program, Walt Scherer, left, from Dow Chemical's Rocky Flats Plant, and Ed Bryant, from the Oak Ridge Y-12 Plant, share experiences. Both men are on a year's loan to the Lawrence Livermore Laboratory, Livermore, Calif.



ON TEMPORARY ASSIGNMENT — James R. Paige works in Y-12's Engineering Design and Production Department, as part of the AEC contractors' exchange program for engineers. Paige's permanent assignment is at the Lawrence Livermore Laboratory.



PROCLAIMS BUSINESS WOMEN'S WEEK — Major Kyle C. Testerman, Knoxville, signs the proclamation declaring National Business Women's Week. Present for the ceremony were Mary Beckham, president of the Knoxville club; and Kay Griffith, first vice president. Mrs. Beckham is the wife of Clarence E. Beckham, Y-12 Stores Department, and Mrs. Griffith is with the Gage Certification Laboratory in Y-12.



ORNL

RIDE from Garden Apartments in Oak Ridge to East Portal at X-10, 8:15 shift. Sylvester Cook, plant phone 3-1777, home phone Oak Ridge 483-5124.

JOIN car pool from Lenoir City to West or East Portal, 8 a.m. shift. Kay Dutton, plant phone 3-6861, home phone Lenoir City 986-2638.

ORGDP

RIDE from Powell to Portal Four, K-25, 4 to midnight shift. Plant phone 3-3794, home phone Powell 947-7079.

Former ORNL man at mining, metals

Robert J. Klotzbach has been appointed Director of Technology, Mining and Metals Division of Union Carbide Corporation, by J.C. Stephenson, President of the Division.



Klotzbach

A native of New York City, Klotzbach is married to the former Myrtle Byrd of Clinton.

Foreign travel

Robert E. Mesmer and William L. Marshall, Reactor Chemistry Division, and Milton H. Lietzke, Chemistry Division, ORNL, participated in the International Conference on High Temperature High Pressure Electrochemistry in Aqueous Solutions in Surrey, England, January 12-17.

Mesmer presented "Precision E.M.F. Measurements of Protolytic Equilibria with Hydrogen Electrodes Above 100°C." Following the conference he planned to visit the Central Electricity Laboratory at Leatherhead, England, to discuss research programs on high temperature aqueous equilibria, and the Institute of Technology, Stockholm, Sweden, to discuss research programs on complexing studies.

The title of Marshall's paper was "Predicting Conductants and Equilibrium Behavior of Aqueous Electrolytes at High Temperatures and Pressures." Marshall served on the organizing committee for the conference and co-chaired two sessions. He planned to visit the University of Newcastle in England, and the University of Karlsruhe, West Germany, before returning home.

Lietzke presented a paper entitled "Reference Electrodes" at the conference.



JOY OF GIVING — The Maintenance Division proved the adage that "happiness is making someone else happy." They presented a check for \$1,000 to the Daniel Arthur Rehabilitation center, raised at Maintenance's big Christmas dance. From left are Mrs. Dorothy Guberman, co-ordinator of children's services at the Center; David A. Jennings, Maintenance Department Superintendent; Mrs. Shirley Campbell and Mrs. Deborah Galyon, teachers at the center; Thomas J. Bentley, Harold D. Cofer and J.D. Franklin, all of Maintenance; and Mrs. A.K. Johnson (whose husband is also in Maintenance). Seated, from left, are Terri Owens and Lorrie Hilton.

DIVISION Retirees



Whatley

James H. Whatley, a sheet metal worker in the General Machine Shop, Y-12, retires at the end of this month. A veteran of the U.S. Marine Corps, he came here in 1954. He is a native of Pisgah, Ala., and lives at 172 Lattimer Road, Oak Ridge.



Mrs. Rymer

Mrs. Elizabeth Rymer, in ORNL Photographic Services in Y-12, has been with Union Carbide more than 21 years. She and her husband live at 2116 Fair Drive, Fountain City. Her son Bill Collins lives in Monroeville, Ala., and another son, Harry Collins lives in Knoxville. She plans "just to take it easy."

Herbert L. Crandall, foreman's clerk in the Plant Equipment Division has retired. Crandall had worked for Union Carbide since May, 1950.

Charlie H. Fox retired January 1 after 24 years of company service. He worked as a laborer in Plant and Equipment Division.

Fox is at home on Henderson Street in Sevierville.

White Gaither plans to do lots of gardening next spring. She retired from Plant and Equipment Division January 1.

Miss Gaither prides herself on missing only about 22 days of work during her 29 years with Union Carbide.

Bowling is one of her best loved hobbies and she has over 50 trophies to

show for it. She is at home at 100 Dewey Road in Oak Ridge.

Wilford M. Gardner, chauffeur in the Plant and Equipment Division, has retired. He had 25 years of company service.

Gardner is at home on Schaad Road in Knoxville.

Herbert B. Richards, automotive mechanic in Plant and Equipment, retired January 1. He is originally from La Follette, Tennessee and came to work for Union Carbide July 6, 1944.

Richards plans to spend more time in his lawn mower repair shop now that he is retired. He is looking forward to good weather so he can camp, hunt and fish.

He lives on Dale Avenue in Oliver Springs.

Y-12 maintenance division gives dance profits to Daniel Arthur

"Love is sharing" was the theme of the annual Christmas dinner-dance sponsored by the Y-12 Maintenance Division. The dance resulted in a gift of \$1,000 to the Daniel Arthur Rehabilitation Center in Oak Ridge.

More than 250 persons attended the early December dance at the Oak Ridge Country Club, according to J.W. "Bill" Ebert, superintendent of the division.

A check presented to the Center by David A. Jennings, maintenance department superintendent in charge of the

even, will be used to purchase orthopedic equipment (including a wheel chair), a large-type typewriter, television sets, and other instructional equipment.

A great deal of the money donated to the Center resulted from an auction of items donated by many area merchants.

"A man will come to less harm by over-working than he will by over-playing."

... Lord Beaverbrook



ARMA HONORS — Bob Green, ORGDP's Systems and Procedures, right, receives the "Chapter Member of the Year" citation from the East Tennessee Chapter of the American Records Management Association. Ken McNabb, Y-12's Records Department, is president of the local chapter and gives Green the plaque.



RECREATIONOTES

ORGDP FISHING RODEO

At ORGDP, 22 anglers walked away with gift certificates in the year-ending rodeo. The largest fish caught in the bunch was a 17 pound plus rockfish landed by Neal Hurd.

Species by species winners were:

LARGEMOUTH BASS

John L. Woody Jr., Wayne E. McGhee, William M. Cox.

SMALLMOUTH BASS

Lewis Neil Walters, Cecil M. Parker, Eugene B. Eastridge.

BREAM

Wade H. Adams, Randy Adams, son of Wade H., Donald J. Tevault.

CRAPPIE

Kathleen Walters, wife of H.E., Gene W. Counts.

MUSKIE

J.D. McClendon, W.G. Norton.

ROCK OR HYBRID

Neal Hurd, Albert D. Reeder, J.D. McClendon.

ROUGH FISH

Harold E. Walters.

SAUGER

Clyde T. Bolen.

TROUT

John May, Joseph A. Walker.

WALLEYE

Norman D. Rathbone, Bernd Niemann.

Y-12 FISHING RODEO

A total of 30 Y-12ers claim prizes in the just-ended fishing rodeo, featuring 11 species. One category - striped bass - failed to show any entries, and rough fish showed only one.

Winners are:

LARGEMOUTH BASS

James W. Graves, Max J. Lawson, Angie Enfinger, wife of William S., William Y. Gissell.

SMALLMOUTH BASS

Roger Webber, son of Tommy R., James D. Lawrence, Ralph F. Graham, Lewis M. Denman.

BREAM

Mike A. Estep, Lee Anne Hicks, daughter of Billy T., Timmy Russell, son of Clifford B.

CRAPPIE

Gary N. Wisman, William K. Mink.

ROCK AND HYBRID

Mrs. George Swicegood Jr., Dwight Morrow, Joe P. Dyer, Jerry M. Brown.

ROUGH FISH

Ronald H. Thornton.

SAUGER

Joe Whittaker, R.S. Phillippi, James H. Whatley, Lynn D. Williams.

TROUT

William H. Eastridge, Mary Ward, wife of W.B., Joe Jackson.

WALLEYE

Golda Gaylor, wife of G.H., George Riggs, Jerry Parrett.

MUSKIE

Clarence G. Hyde, George W. Sharp.

ORNL FISHING RODEO

Oak Ridge National Laboratory closes the last half of its 1972 semi-annual fishing rodeo with 31 big winners. Gift certificates were awarded last week to the winners.

By category the winners were:

LARGEMOUTH BASS

Robert M. Holmes, Beryl E. McNabb, Raymond Lawson, David S. Carroll.

SMALLMOUTH BASS

John D. Blanton, Ronnie Bradley, Lynn Anderson, son of L.L.; William H. Montgomery.

STRIPED BASS

Max Brewer.

BREAM

Jeff Fountz, Edward B. Cagle, Gladys Arthur, James Cagle, son of Edward B.

CRAPPIE

Gus Testerman.

ROCK AND HYBRID

Nat D. Morrell.

ROUGH FISH

Bobby Kerby, son of Robert E., Bernard Lawson, son of Raymond D., Ralph G. Shooster, Jim Heiskell.

SAUGER

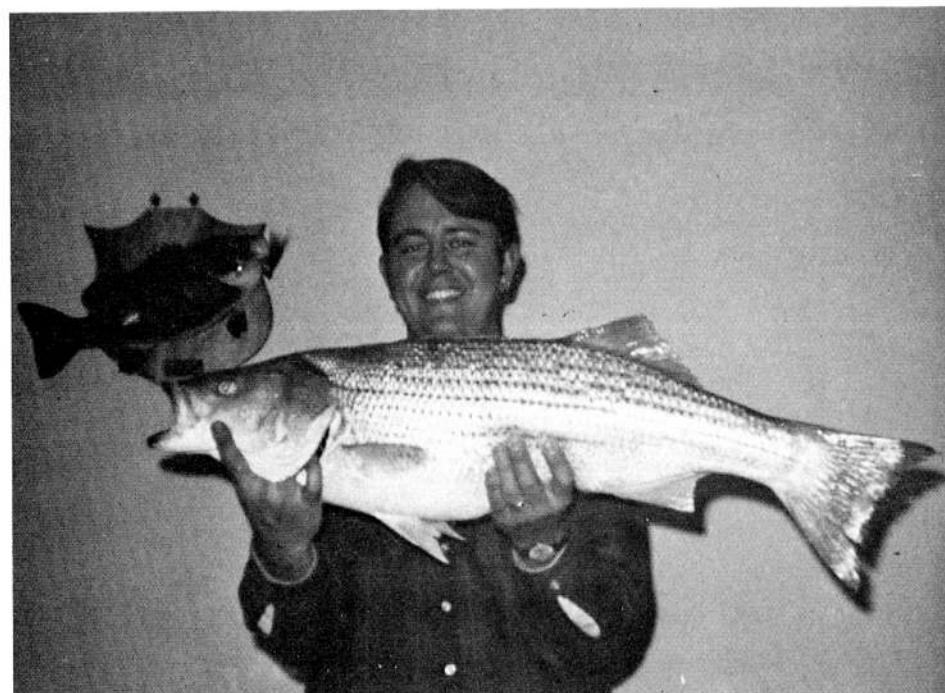
Robert F. Hyland, James L. Moore, Lonnie L. Anderson, Ray Shooster, son of Ralph G.

TROUT

John Hendrickson, son of A.T., Dewey S. Easton, Charles H. Miller, William F. Dickey.

WALLEYE

Gerald E. Pierce, William T. Bostic, Raymond L. Lawson, son of Raymond, Jack L. Bailey.



PRIZE ROCKFISH — Dwight Morrow landed this 15 pound, 13 ounce rockfish to take first place in Y-12's Rodeo recently concluded. The denizen was dragged in from the cold waters of Norris Lake.



HELP NEEDED — Clarence G. Hyde pulled a near-record 34-pound plus muskie from the Powell Valley section of Norris recently to win first place in Y-12's semi-annual rodeo.



Y-12

RIDE from Smithwood area in Knoxville to Central Portal at Y-12, 8 a.m. shift. Georgia Bower, home phone Knoxville 687-8014.

CAR POOL member from East Village, Elm Grove Area, Oak Ridge, to North Portal, straight day. M.W. Moyer, plant phone 3-5111, home phone Oak Ridge 483-8781.

Y-12 BOWLING

The Alley Cats roared into the second half, taking the Rollers, who won the first half, by storm. Bill Patrick was red hot with a 587 scratch series, a 671 handicap total.

Most bowlers observed holiday moods and took a big hiatus.

'MOTHERS MARCH' SET

Next Thursday, January 25, will be Mothers' March for the National Foundation - March of Dimes. Mrs. Michael Shemanski, wife of a retired Y-12er, is the Oak Ridge chairman.

CARBIDE BASKETBALL

Only two teams now hold clean records in the Basketball Leagues and those belong to the GBU's - in the Atomic League, and the TAT Playmakers in the Nuclear League.

ATOMIC LEAGUE

Team	W	L
GBU's	5	0
CC 69ers	3	1
Pistols	3	1
Springers	3	2
Bottlenecks	1	2
Sharpshooters	1	2
A-5 Bucks	1	3
K-25 Trojans	1	3
Isomets	0	4

NUCLEAR LEAGUE

Team	W	L
TAT Playmakers	3	0
Aardvarks	4	1
Bombers	2	1
A-Bends	2	2
Grundy Express	2	2
X-10 Cafeteria	2	2
Environmental Sciences	1	2
Butterfingers	1	4
Biology	0	3

CARBIDE VOLLEYBALL

Five teams boast unblemished records through the first week of the big 21-team Volleyball League.

Standings through January 11:

Team	W	L
The Committee	6	0
The Gang	6	0
Hawks	6	0
Spikers	6	0
Pack	3	0
Electric Bananas	5	1
Taxi Squad	2	1
Playmakers	2	1
Jokers	4	2
Radphys	3	3
Old Men	3	3
Y-12 Old Men	1	2
Sloths	1	2
Over-the-hill Gang	2	4
Benthicks	2	4
Bombers	1	5
Ballers	1	5
Raiders	1	5
Quarks	1	5
Anti-Quarks	1	5
Phoenix	0	6

Hiatus Hernia - fancy name

(Editor's Note: Dr. Lincoln has begun answering health questions from employees. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," c/o NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, or call the news editor in your plant, and give him your question on the telephone.)



By T. A. Lincoln, M.D.

A few of the people who complain of "stomach trouble" now get the impressive sounding diagnosis, hiatus hernia. The explanation which the busy physician gives after making his diagnosis often rushes by too rapidly to comprehend. Many questions occur after getting back home. Removing some of the mystery of hiatus hernia may help victims learn to live with their handicap and help other members of the family understand their complaints.

The sliding type of hiatus hernia is by far the most common. Normally the esophagus connects with the stomach after it passes through a hole or hiatus in the diaphragm, the breathing or bellows muscle which separates the chest from the abdomen. The stomach normally stays below this opening. In a person with a sliding hernia, the upper part of the stomach, including the junction between the esophagus and the stomach, slides through the abnormally loose opening in the diaphragm into the chest. In another, less common type, the stomach slides through but the junction still remains below the diaphragm. In some, it moves back and forth easily, while in others it stays up in the chest.

The reason why the opening in the diaphragm becomes enlarged and allows the stomach to slip through it is still unknown. It is probably a combination of an inherited weakness aggravated by obesity, lack of exercise, pregnancy, posture, or other acquired factors. Some say that the esophagus reflexly shortens, pulling the stomach up into the chest as a result of reflux or regurgitation of acid material into the lower esophagus.

Although no large surveys have been attempted because of the difficulty in making the diagnosis, smaller studies suggest that about 5 per 1000 of the adult population are affected at any one time. The condition usually is found after age 40 and is most common in the fifties. It is a little more common in women than in men (about 60 percent of cases occur in women). About 10 per cent of cases occur in children, but the frequency may be higher since it often does not cause sufficient symptoms to justify a detailed diagnostic study.

Symptoms described

The symptoms vary widely, both in intensity and nature. About 20 percent of patients found to have a hiatus hernia will say they have no symptoms. These cases are usually found during a chest or gastrointestinal x-ray study being done for some other reason. The

majority of patients have mild symptoms, usually consisting of burning pain located under the lower portion of the breast bone or in the upper abdomen, often related to the intake of large, coarse or fatty meals with coffee. There is often associated dyspepsia and sometimes regurgitation of a small quantity of acid-tasting material into the throat.

Patients often notice that their symptoms are worse if they lie down after eating a big meal. Bending, stooping, sitting slouched in a chair, or bending over to pick up something also make the symptoms worse or sometimes precipitate them. The complaints are often about the same as in a person with a peptic ulcer or just "nervous indigestion". Bloating, burning, belching, fullness, or tightness are common symptoms for all these conditions. Sometimes the pain in the chest mimics angina caused by heart disease. Differentiating these two diseases can be difficult and occasionally these two diseases can occur together, making the problem even more complex.

X-ray stomach studies

Sometimes patients complain of difficulty swallowing. When the bolus of food reaches the lower esophagus it causes discomfort. Fortunately, only about 10-15 percent of patients develop severe problems such as bleeding or stricture formation.

The diagnosis is usually made with a special x-ray study of the stomach (upper GI series). Direct visual inspection of the lower esophagus (esophagoscopy) is usually necessary to determine the presence of esophagitis or ulceration.

Only those patients with severe problems should consider surgery. The operation is a major procedure fraught with complications. It should not be considered unless medical management will not control the symptoms. Unfortunately, some patients would rather take the surgical risk than carefully follow the medical regimen.

No girdle, please

Reduction of body weight to near ideal level is of great importance. A bland or ulcer diet with abstinence from alcohol, coffee and tobacco is usually necessary. The head of the bed should be elevated six to 12 inches. Constricting garments at the waistline should be avoided. (Not wearing a girdle may create a "cosmetic" problem but it is advisable.) Antacids, antispasmodics and mild sedatives are used as needed. Belching should be avoided and with practice it can be suppressed. The biggest meals should be eaten in



SWEET ADELINES — The Oak Ridge Sweet Adelines will present "A Woman's World" at the Oak Ridge Playhouse, February 2 and 3. Many Nuclear Division wives and employees participate in the barbershop chorus. In the front row from left, are Mrs. C.C. Landers, Mrs. J.D. McClendon, Mrs. Lou Kovach, Mrs. Richard Anderson, and Mrs. Walter J. Stelzman. In the second row are Mrs. Laird F. Dickerson, Mrs. Avery Kendig, Mrs. Paul Hauber, Mrs. Rod Creigh, Mrs. Harold G. Smith and Mrs. Jack Addison. In the third row are Mrs. John Nicholson, Mrs. Paul Wilkinson, Mrs. Paul Agron, Mrs. Ed Isham, Mrs. Paul Jarvis, Mrs. Paul Woods, Mrs. G.L. Roberts, Mrs. W.A. Bush, Mrs. George B. Marrow and Mrs. William H. Lynch.

Nuclear Division deaths

Lloyd A. Michaels, a machinist in ORNL's Plant and Equipment Division, died December 28 in a Knoxville hospital.

Mr. Michaels had been employed by Union Carbide for 20 years. He began working at the Y-12 Plant and had worked at ORNL for six years prior to his death.

The Michaels' home is at 652 Robertsville Rd., Oak Ridge.

Survivors include his wife Mrs. Virginia Michaels; his mother Mrs. Lola Dukeman; three daughters, Mrs. Sandra Potts, Mrs. Larry Sweeden and Michelle Michaels; four sisters; and six grandchildren.

Funeral services were held at Weatherford Chapel. Burial followed in the Anderson Memorial Gardens.

ORNL DESIGN MACHINIST

Joseph L. Breedlove, retired ORNL design machinist, died January 2 in Oak Ridge Hospital. He had been admitted to the hospital on December 19. Mr. Breedlove worked in Plant and Equipment and Solid State until his retirement in 1968. Funeral services were held at First United Methodist Church and Masonic memorial services

the early part of the day and only a light supper with no snacking before going to bed is recommended. Bending from the knees rather than the waist is also a good idea.

It is hoped that the above explanation will take only the mystery and none of the glamor out of hiatus hernia. It certainly sounds better than "stomach trouble".

were held at Martin Funeral Home. Burial was in Buttram Family Cemetery in Dayton.



Mr. Michaels



Mr. Cooper

Raymond E. Cooper, ORGDP engineering division, died January 8, at his 201 California Avenue, Oak Ridge, home.

Mr. Cooper joined Union Carbide in April of 1951, after his graduation from the University of Kansas. He was a native of Hutchinson, Kan.

Survivors include his wife, Mrs. Joan Cooper; a daughter, Susan; two sons, Kenneth and Michael Cooper; sisters, Mrs. Melvin Kirkbridge and Mrs. Joseph Mumm.

Funeral services were held at the Covenant Presbyterian Church, where Mr. Cooper served as a deacon and church treasurer. They were conducted by the Rev. James Harrell. Burial followed in Oak Ridge Memorial Park.

FORMER ORNL GUARD DIES

Earl Ensminger, retired ORNL guard of Athens, died January 6 at his home. Mr. Ensminger worked at ORNL for 20 years prior to his retirement in 1963. Funeral services were held at Evans-Smith Funeral Home in Athens. Burial followed in Cedar Grove Cemetery.

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CALENDAR of EVENTS

TECHNICAL

January 19

Reactor Division Seminar: "Dismantling the Elk River Reactor," Robert Blumberg. Large Conference Room, Building 9204-1, Y-12, 3 p.m.

Solid State Biophysics Seminar: "Determination of the Optical and Dielectric Behavior of Matter from Reflectance Measurements," Robert N. Hamm. Room S-126, Building 4500S, ORNL, 11 a.m.

January 24

Chemical Technology Division Seminar: "Engineering Studies of Whole-Block Burners for HTGR Reprocessing," H. Barnert-Wiemer, West Germany. Central Auditorium, Building 4500N, 3 p.m.

Metals and Ceramics Division Seminar: "Diagnosis and Treatment of Cancer at ORAU Medical Division Hospital," Dr. Francis A. Goswitz, ORAU Medical Division. East Auditorium, Building 4500N, 2:45 p.m.

January 29, 30

Analytical Chemistry Division Information Meeting: Central Auditorium, Building 4500N, 9 a.m.

COMMUNITY

January 19

Oak Ridge Playhouse presents: "Slow Dance on the Killing Ground," Oak Ridge Playhouse, 8:20 p.m. Admission: adults \$2.50; students \$1.25. Other performances January 26 and 27.

January 20

Junior Playhouse tryouts for "The Legend of Sleepy Hollow." 11:30 a.m.

January 21

Junior Playhouse presents: "Gypsy Adventure" (professional touring show). Robertsville Junior High Auditorium, 3 p.m. Admission: \$1.00.

Art Center Film Club presents: "Woman in the Dunes" (Hiroshi Techigahara, Japan - 1964). Jefferson Junior High Auditorium, 8 p.m. Admission: adults \$1.50; students \$1.00.

January 27

Oak Ridge Civic Ballet Association presents: The Butler University Touring Ballet Company. Robertsville Junior High Auditorium, 8:15 p.m.

COMPANY SERVICE —20-25-30—

PADUCAH 20 YEARS

Ezekiel R. Murphey, James A. Elliott, Barney W. Ross, Woodrow W. Crutcher, Harry M. Champion, Earl C. Hovekamp, William G. Beasley, Clarence E. Varble, George L. Dunlap, Joe M. Crutcher, Hassell W. Chapman and James W. Hill.

ORGDP 30 YEARS



Schwab

William G. Schwab joined Union Carbide January 15, 1943, at Columbia's SAM Laboratories. He came to ORGDP June 1, 1946. A native of Brazil, Ind., Schwab is a graduate of Indiana State University. He lives at Route 4, Kingston.

25 YEARS

Paul C. Hauber, Glen E. Harber, William E. Cooper and Gilbert G. Jones.

20 YEARS

Richard B. Schappel, Joseph B. Marshall, Delbert Bivens, Robert A. Williamson and Eddis A. Henderson.

HANDBALL, ANYONE?

Persons in this area wishing to organize forces to play handball and attempt to get a court constructed in Oak Ridge might like to join hands with Mike Holland. Holland, who can be reached on extension 3-7091, or Oak Ridge telephone 482-2860, says he is willing to help organize such efforts. Just give him a ring.

ORNL's Ruby Miller joins public relations

6-19474



Ruby Miller

Ruby Miller has joined the Public Relations staff of the Nuclear Division of Union Carbide. Her office will be at Oak Ridge National Laboratory. In addition to responsibilities in connection with the publication of the Nuclear Division News she will be assisting with general public relations activities for the Nuclear Division.

Mrs. Miller, the former Ruby Anderson, a native of Spartanburg County, S.C., holds a B.S. degree in business education from Livingstone College.

She and her husband, Horace, who works in Y-12's Data Processing, live at 114 Portland Lane, Oak Ridge. They have two sons, Anthony and Darryl.

Mrs. Miller sews in her spare time, designing most of her own clothes, and is president of the Polite Society in Oak Ridge, a social-civic organization.

She joined Union Carbide June 10, 1968, and most recently was in the Chemical Technology Division.

CARBIDE SKEET LEAGUE

Y-12ers swept last month's Skeet firings, mainly because only Y-12ers participated in the pre-holiday firings. Winners were Joe Comolander, with a 49.156; Perry Bullard, 49.065; and Leon Bray, 47.625. Alan Van Hull was under penalty from previous winnings.



HOW TO WIN FRIENDS — Paducah Plant personnel recently scheduled 12 sessions of "Telephone Techniques" to instruct employees on proper telephone etiquette. The courses were taught by Winnie Williford of South Central Bell. Seated from left, clock-wise, are Mary Nelson, Gene Rollins, Jenny Schunch, Paul Shearer, C.S. McWhorter, Jim Elliott, Ruth Miller, Billy Reece, John Stephens, Nat Addleman, Stewart Tolar and Barry Chapman.